This listing of claims will replace all prior versions, and listings, of claims in the application:

## Claim 1 (canceled)

- 1 Claim 2 (withdrawn): The method of claim 4 wherein the
- 2 selected set of configuration information for a data
- 3 forwarding device is a most recently committed set of
- 4 configuration information for the data forwarding device.
- 1 Claim 3 (withdrawn): The method of claim 4 wherein the
- 2 selected set of configuration information for a data
- 3 forwarding device is selected by a user.
- 1 Claim 4 (withdrawn): A method comprising:
- a) accepting at least a part of a selected set of
- 3 configuration information for a data forwarding device;
- b) accepting at least a part of a set of candidate
- 5 configuration information for the data forwarding device;
- 6 and
- 7 c) determining differences, if any, between
- 8 the at least a part of the set of candidate
- 9 configuration information for the data forwarding
- 10 device, and
- the at least a part of the selected set of
- 12 configuration information for the data forwarding
- device,
- 14 wherein the set of candidate configuration
- 15 information for the data forwarding device includes a
- 16 plurality of statements,
- wherein a first statement of the plurality of
- 18 statements of the set of candidate configuration information

- 19 for the data forwarding device contains a second statement of
- 20 the plurality of statements to define at least a part of a
- 21 hierarchical configuration,
- 22 wherein the selected set of configuration
- 23 information for the data forwarding device includes a
- 24 plurality of statements,
- 25 wherein a first statement of the plurality of
- 26 statements of the selected set of configuration information
- 27 for the data forwarding device contains a second statement of
- 28 the plurality of statements to define at least a part of a
- 29 hierarchical configuration,
- 30 wherein the at least the part of the set of
- 31 candidate configuration information only includes a defined
- 32 first statement and any of the plurality of statements that
- 33 are descendants of the defined first statement in the
- 34 hierarchical configuration, and
- 35 wherein the at least the part of the selected set of
- 36 configuration information includes a corresponding first
- 37 statement and any of the plurality of statements that are
- 38 descendants of the defined first statement in the hierarchical
- 39 configuration.

## Claim 5 (canceled)

- 1 Claim 6 (withdrawn): The method of claim 4 wherein the
- 2 defined first statement is defined based on a statement of the
- 3 hierarchical candidate configuration information on which a
- 4 user is presently working.
- 1 Claim 7 (withdrawn): The method of claim 4 5 wherein the
- 2 defined first statement is defined by a user input.

- 1 Claim 8 (withdrawn): The method of claim 4 wherein the
- 2 hierarchical configuration information includes at least two
- 3 categories at a first hierarchical level, and
- 4 wherein the at least two categories are selected
- 5 from a group of data forwarding device configuration
- 6 categories consisting of:
- 7 A) chassis configuration information;
- 8 B) class-of-service configuration information;
- 9 C) firewall configuration information;
- 10 D) forwarding-options configuration information;
- 11 E) groups configuration information;
- 12 F) interfaces configuration information;
- 13 G) policy-options configuration information;
- 14 H) protocols configuration information;
- 15 I) routing-instances configuration information;
- 16 J) routing-options configuration information;
- 17 K) network management protocol configuration
- 18 information; and
- 19 L) system configuration information.
- 1 Claim 9 (withdrawn): The method of claim 4 wherein the
- 2 hierarchical configuration information includes at least two
- 3 categories at a given hierarchical level, the method further
- 4 comprising:
- 5 d) associating a predetermined permission value with a
- 6 user that is logged in; and
- e) determining whether the logged in user is permitted
- 8 to access one of the at least two categories of
- 9 configuration information based on the predetermined
- 10 permission.
- 1 Claim 10 (previously presented): A method comprising:

2	a) accepting at least a part of a selected set of
3	configuration information for a data forwarding device;
4	b) accepting at least a part of a set of candidate
5	configuration information for the data forwarding device
6	and
7	c) determining differences, if any, between
8	- the at least a part of the set of candidate
9	configuration information for the data forwarding
0	device, and
1	- the at least a part of the selected set of
2	configuration information for the data forwarding
3	device,
4	wherein the act of accepting at least a part of a
5	selected set of configuration information for a data
6	forwarding device is performed by accessing a storage device
7	of the data forwarding device,
8	wherein the act of accepting at least a part of a
9	set of candidate configuration information for the data
20	forwarding device is performed by accessing a storage device
21	of the data forwarding device; and
22	wherein the act of determining differences, if any,
23	between
24	<ul> <li>the at least the part of the set of candidate</li> </ul>
25	configuration information for the data forwarding
26	device, and
27	<ul> <li>the at least the part of the selected set of</li> </ul>
28	configuration information for the data forwarding
29	device,
30	is performed by a component of the data forwarding device.

<sup>1</sup> Claim 11 (withdrawn): A method comprising:

2	a) accepting at least a part of a selected set of
3	configuration information for a data forwarding device;
4	b) accepting at least a part of a set of candidate
5	configuration information for the data forwarding device
6	and
7	c) determining differences, if any, between
8	- the at least a part of the set of candidate
9	configuration information for the data forwarding
0	device, and
1	- the at least a part of the selected set of
2	configuration information for the data forwarding
3	device,
4	wherein the set of candidate configuration
5	information for the data forwarding device includes a
6	plurality of statements,
7	wherein the selected set of configuration
8	information for the data forwarding device includes a
9	plurality of statements, and
20	wherein the act of determining differences, if any,
21	between
22	<ul> <li>the at least a part of the set of candidate</li> </ul>
23	configuration information for the data
24	forwarding device, and
25	- the at least a part of the selected set of
26	configuration information for the data
27	forwarding device,
28	considers changes to statements without regard to parameter
29	values.

Claim 12 (canceled)

- 1 Claim 13 (original): In a data forwarding device, a facility
- 2 for checking at least a part of a set of candidate
- 3 configuration information, the facility comprising:
- a) a storage device for storing at least one set of
   configuration information for the data forwarding device;
  - b) an input facility for
  - i) accepting at least a part of a selected one of the at least one set of configuration information for a data forwarding device, and
    - ii) accepting at least a part of a set of candidate configuration information for the data forwarding device; and
    - c) a configuration comparison facility for determining differences, if any, between
      - the at least a part of the set of candidate configuration information for the data forwarding device, and
  - the at least a part of the selected one of the at least one set of configuration information for the data forwarding device.
- 1 Claim 14 (withdrawn): A method for determining differences in
- 2 at least a part of sets of configuration information,
- 3 comprising:

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- a) accepting at least a part of a first set of
   configuration information for a data forwarding device,
   wherein the first set of configuration information has
- 7 not been saved on the data forwarding device as a
- 8 committed configuration, and wherein no copied instance
- 9 of the first set of configuration information has been
- 10 saved on the data forwarding device as a committed
- 11 configuration;

- b) accepting at least a part of a second set of configuration information for the data forwarding device, wherein the second set of configuration information has been saved on the data forwarding device; and
  - c) determining differences, if any, between
- the first set of configuration information for a data forwarding device, and
- the second set of configuration information for a data forwarding device.
- 1 Claim 15 (withdrawn): The method of claim 14 wherein the
- 2 first set of configuration information for a data forwarding
- 3 device includes a plurality of statements,
- 4 wherein a first statement of the plurality of
- 5 statements of the first set of configuration information for a
- 6 data forwarding device contains a second statement of the
- 7 plurality of statements to define at least a part of a
- 8 hierarchical configuration,
- 9 wherein the second set of configuration information
- 10 for a data forwarding device includes a plurality of
- 11 statements, and

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- 12 wherein a first statement of the plurality of
- 13 statements of the second set of configuration information for
- 14 a data forwarding device contains a second statement of the
- 15 plurality of statements to define at least a part of a
- 16 hierarchical configuration.
- 1 Claim 16 (withdrawn): The method of claim 15 wherein the at
- 2 least the part of the first set of configuration information
- 3 for a data forwarding device only includes a defined first
- 4 statement and any of the plurality of statements that are

- 5 descendants of the defined first statement in the hierarchical
- 6 configuration, and
- 7 wherein the at least the part of the second set of
- 8 configuration information for a data forwarding device
- 9 includes a corresponding first statement and any of the
- 10 plurality of statements that are descendants of the defined
- 11 first statement in the hierarchical configuration.
- 1 Claim 17 (withdrawn): The method of claim 16 wherein the
- 2 defined first statement is defined by a user input.
- 1 Claim 18 (withdrawn): The method of claim 15 wherein the
- 2 hierarchical configuration information includes at least two
- 3 categories at a first hierarchical level, and
- 4 wherein the at least two categories are selected
- 5 from a group of data forwarding device configuration
- 6 categories consisting of:
- 7 A) chassis configuration information;
- 8 B) class-of-service configuration information;
- 9 C) firewall configuration information;
- 10 D) forwarding-options configuration information;
- 11 E) groups configuration information;
- 12 F) interfaces configuration information;
- 13 G) policy-options configuration information;
- 14 H) protocols configuration information;
- 15 I) routing-instances configuration information;
- 16 J) routing-options configuration information;
- 17 K) network management protocol configuration
- information; and
- 19 L) system configuration information.

- 1 Claim 19 (withdrawn): The method of claim 14 wherein the act
- 2 of accepting at least a part of the first set of configuration
- 3 information for the data forwarding device is performed by
- 4 accessing a storage device of the data forwarding device,
- 5 wherein the act of accepting at least a part of the
- 6 second set of configuration information for the data
- 7 forwarding device is performed by accessing a storage device
- 8 of the data forwarding device, and
- 9 wherein the act of determining differences, if any,
- 10 between
- the first set of configuration information
- for the data forwarding device, and
- the second set of configuration information
- 14 for the data forwarding device,
- 15 is performed by a component of the data forwarding device.
- 1 Claim 20 (withdrawn): The method of claim 14 wherein the
- 2 first set of configuration information for a data forwarding
- 3 device includes a plurality of statements, at least some of
- 4 which define parameter values,
- 5 wherein the second set of configuration information
- 6 for the data forwarding device includes a plurality of
- 7 statements, at least some of which define parameter values,
- 8 and
- 9 wherein the act of determining differences, if any,
- 10 between
- the first set of configuration information
- 12 for the data forwarding device, and
- the second set of configuration information
- 14 for the data forwarding device,
- 15 considers a selected one of (a) statements only, (b) parameter
- 16 values only, and (c) statements and parameter values.

## Claim 21 (cancelled)

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configuration;

Claim 22 (original): In a data forwarding device, a facility 1 2 for comparing at least a part of sets of configuration information, the facility comprising: 3 a storage device for storing at least two sets of 4 configuration information for the data forwarding device; 5 an input facility for 6 accepting at least a part of a first selected 7 one of the at least two sets of configuration 8 9 information for the data forwarding device, and accepting at least a part of a second selected 10 one of the at least two sets of configuration 11 information for the data forwarding device; and 12 a configuration comparison facility for determining 13 differences, if any, between 14 the first selected one of the at least two sets 15 of configuration information for the data forwarding 16 device, and 17 the second selected one of the at least two sets 18 of configuration information for the data forwarding 19 20 device. 1 Claim 23 (withdrawn): A method comprising: 2 receiving with a data forwarding device, a first set of configuration information for the data forwarding device, 3 4 wherein the first set of configuration information has not yet been committed on the data forwarding device, and wherein no 5 6 copied instance of the first set of configuration information has been saved on the data forwarding device as a committed 7

- 9 receiving with the data forwarding device, a second set
- 10 of configuration information for the data forwarding device;
- determining with the data forwarding device, differences
- 12 between the first and second sets of configuration
- 13 information.
- 1 Claim 24 (withdrawn): The method according to claim 23,
- 2 wherein the data forwarding device is a router.
- 1 Claim 25 (previously presented): A data forwarding device
- 2 comprising:
- a memory storing a first set of configuration information
- 4 and a second set of configuration information for the data
- 5 forwarding device; and
- a processing module for determining differences between
- 7 the first and second sets of configuration information stored
- 8 in the memory.
- 1 Claim 26 (previously presented): A data forwarding device
- 2 comprising:
- a plurality of data interfaces for connection to
- 4 respective data lines;
- 5 a mechanism for forwarding data from one data interface
- 6 to another data interface;
- 7 a user interface for entering configuration information;
- 8 a memory storing a first set of configuration information
- 9 and a second set of configuration information; and
- 10 a processing module for determining differences between
- 11 the first and second sets of configuration information stored
- 12 in the memory.

- 1 Claim 27 (previously presented): The method of claim 10
- 2 wherein the selected set of configuration information for a
- 3 data forwarding device is a most recently committed set of
- 4 configuration information for the data forwarding device.
- 1 Claim 28 (previously presented): The method of claim 10
- 2 wherein the selected set of configuration information for a
- 3 data forwarding device is selected by a user.
- 1 Claim 29 (withdrawn): The method of claim 11 wherein the
- 2 selected set of configuration information for a data
- 3 forwarding device is a most recently committed set of
- 4 configuration information for the data forwarding device.
- 1 Claim 30 (withdrawn): The method of claim 11 wherein the
- 2 selected set of configuration information for a data
- 3 forwarding device is selected by a user.
- 1 Claim 31 (withdrawn): The method of claim 14 wherein a
- 2 command to save the first set of configuration information on
- 3 the data forwarding device as a committed configuration has
- 4 not occurred.
- 1 Claim 32 (withdrawn): The method of claim 14 wherein the
- 2 first set of configuration information is from an uncommitted
- 3 candidate configuration, and
- 4 wherein the second set of configuration information is
- 5 from a configuration that has been saved on the data
- 6 forwarding device as a committed configuration.

- 1 Claim 33 (previously presented): The method of claim 10
- 2 wherein the candidate set of configuration information is an
- 3 uncommitted candidate configuration, and
- 4 wherein the selected set of configuration information is
- 5 a configuration that has been saved on the data forwarding
- 6 device as a committed configuration.